DVS-8504E User Guide

V1.0.0

CTC Union Technologies Co., Ltd.

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1. Hardware and Setting

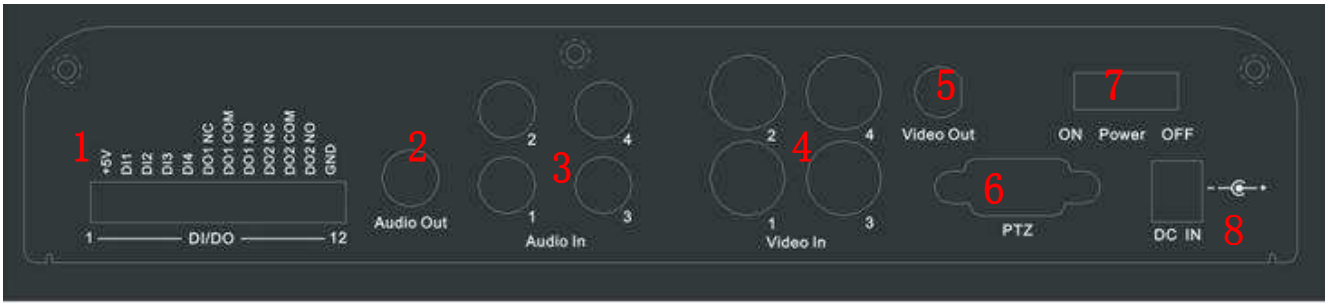
1.1. Package Contents

1. DVS 8504E video encoder
2. 12V Power Adaptor
3. CD (User Manual)

1.2. Overview: Front panel

1. Hard disk box.
2. Reset button
3. Network
4. Video-in LED.
5.Hard disk: Flash while hard disk is reading or writing.
6.Power LED:

1.3. Overview: Back Panel



1. DI/DO
2. Audio out.
3. Audio in
4. Video in.

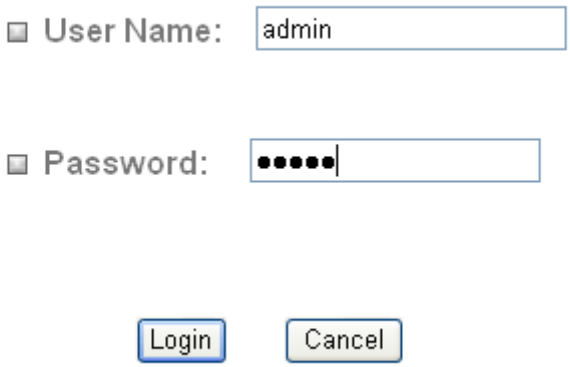
5. Video out
6. PTZ control port.
7. Power switch.
8. Power DC in

2. Web Interface Setting

2.1. Connect to DVS by Internet browser

- Execute Internet browser (FireFox is not supported). If there is a DHCP server in local Lan, please key-in the IP address from DHCP server on address bar. If not, please use “192.168.0.100”to access.
- The default username and password is “admin”

  Note: Default username and password can be changed by “Account” → “Admin”



- After that, main setup page will be shown (If there is ActiveX setup dialog, please choose “Install”)

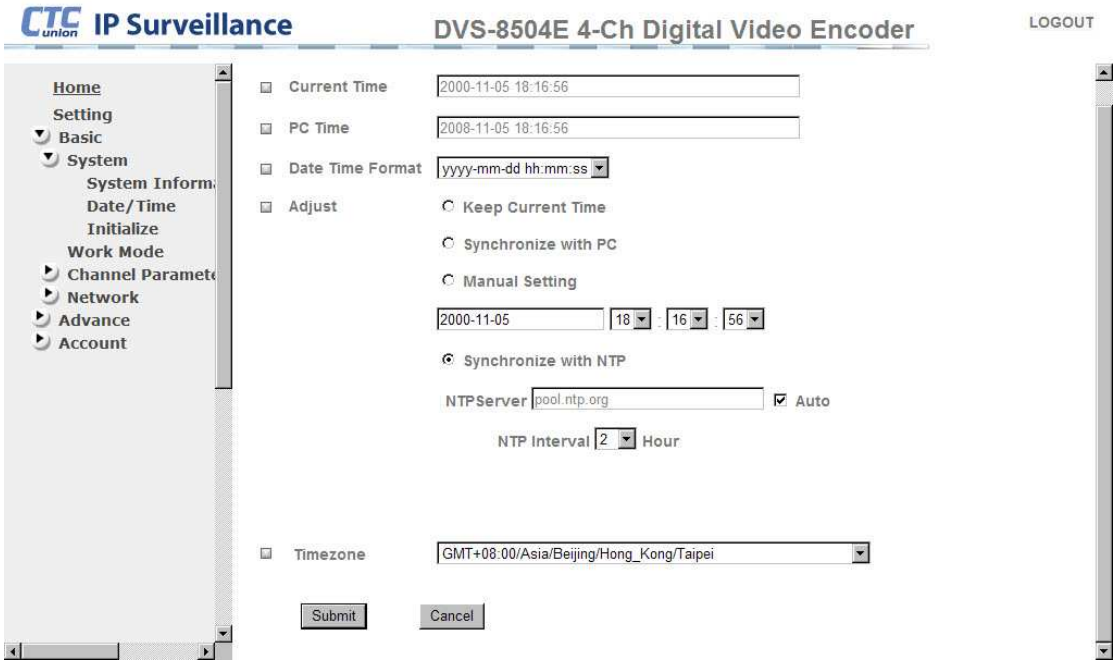
Language: There are three languages can be choose: English, Simplified Chinese, tradition Chinese

2. 1. 1. Setting

Click to setup basic and advance setting.

2. 1. 2. Playback

Look up recorded video by channel, event, and period time.



2. 1. 3. Live view

Channel：Choose channel. Choose main or sub channel to live view.

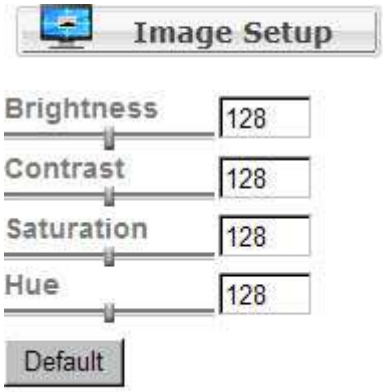
Snapshot
Save live image to local machine.

1 · Click to get live image.

2 · Click “Save” to save image.

3 · Click “Close” to back live view.

2.1.4. Image setup



Move the slider to setup brightness, contrast, saturation, and hue.

2.1.5. PTZ control

Click these directional buttons to control PTZ camera.

Click “Set” to add camera preset point. Click “Go” to let camera go to preset point.

Click “Set” to select patrol way. Click “Go” to patrol. Before use this feature, please go to “Setting” → “Advance” → “Patrol” to set the patrol way.

Adjust camera focus.

Adjust camera zoom in or out.

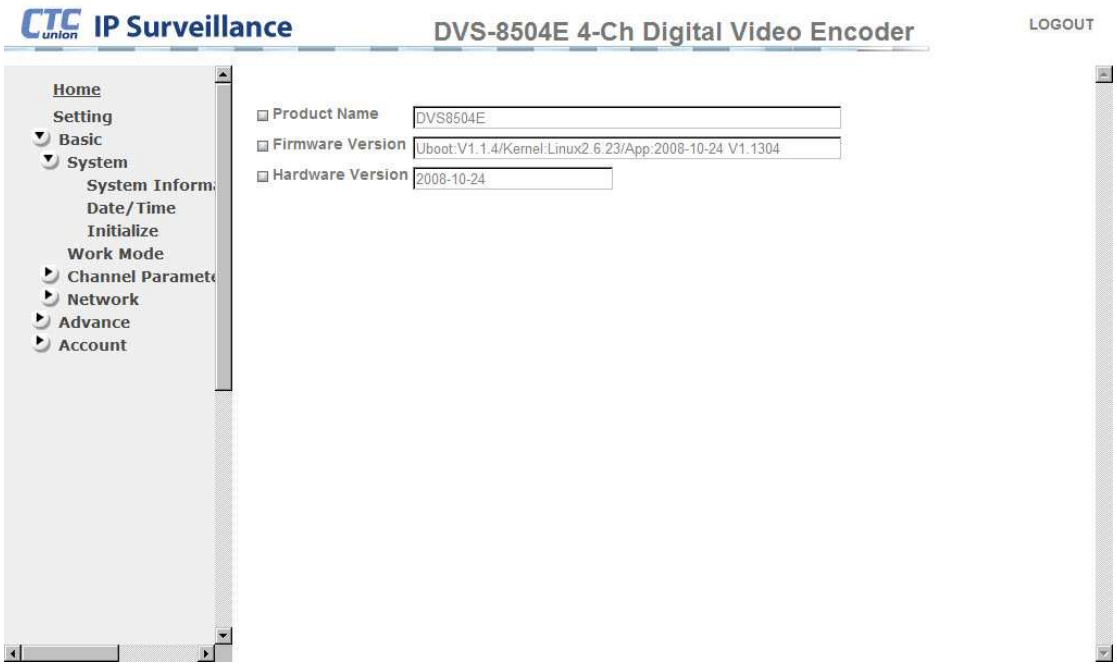
2.2. Basic

There are four settings in this sub-menu. Including “System”, “Work mode“, “Channel parameter” and “Network”

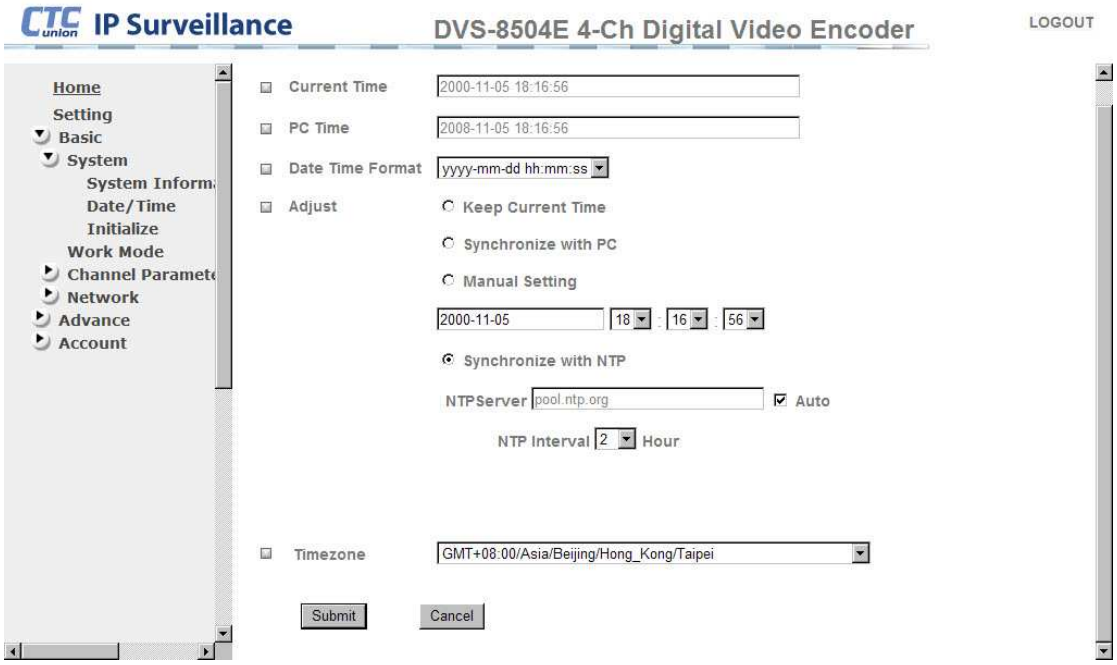
2. 2. 1. System

2. 2. 1. 1. System Information

This page including information of “Product name”, “Firmware Version”, and “Hardware version”.



2. 2. 1. 2. Date/ Time



- Current time：Show current time of this device.
- PC Time：Show current time of controlling PC.
- Date Time Format：Select the display format of time. For example: yyy-mm-dd hh:mm:ss (Year－Month－Day Hour : Minute : Second)
- Adjust：Four ways to update server time.

  ◎Keep Current Time：Remain device current time.

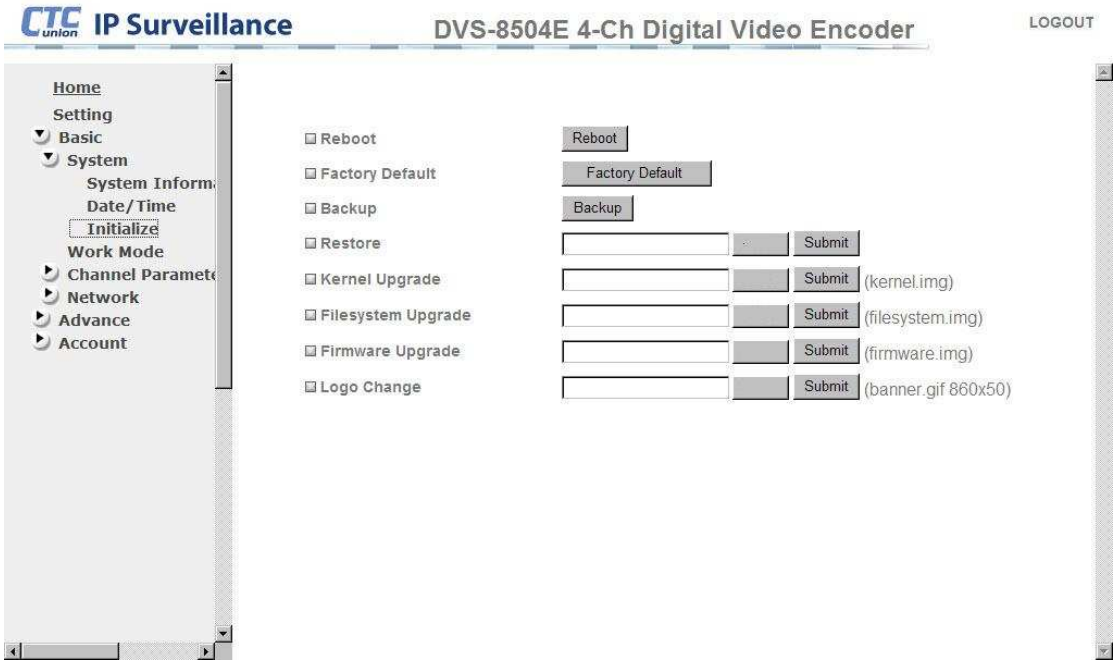
  ◎Synchronize with PC：Synchronize with controlling PC

  ◎Manual Setting：Select this mode to manually adjust the date and time of this device.

  ◎Synchronize with NTP：Refresh interval to synchronize the date and time of this device with those of the time server, known as NTP (Network Time Protocol) server
- NTP Server：Input NTP server name or IP address. No more than 64 characters.
- Time zone：Choose time zone and time difference from Greenwich Mean

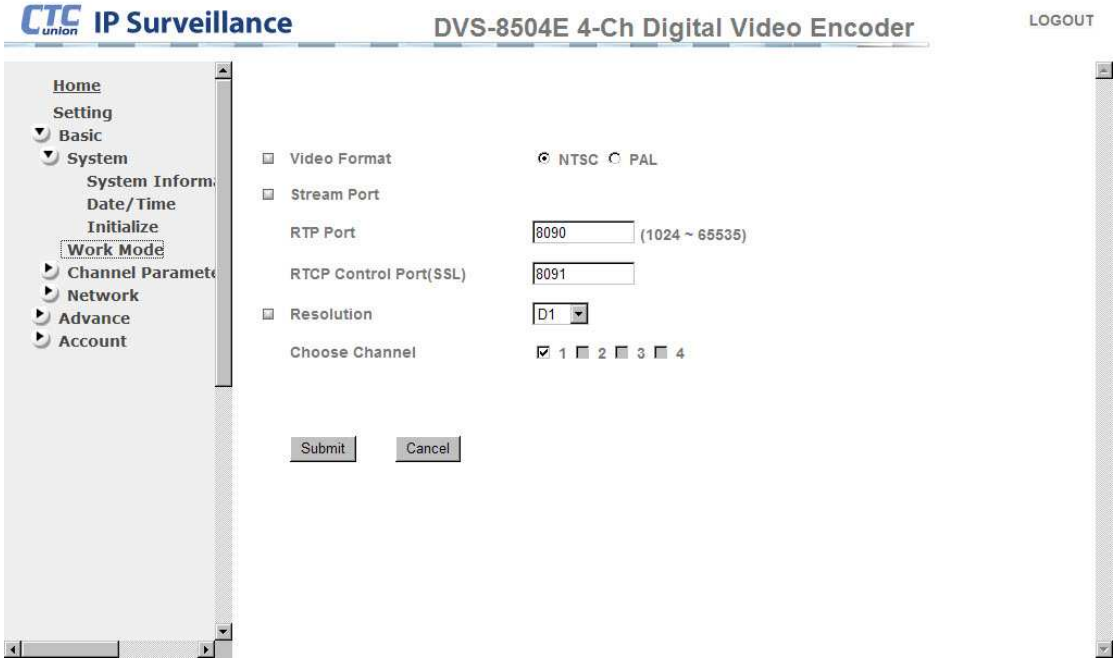
Time in the area where the device is installed from the pull-down box.

2. 2. 1. 3. Initialize



- Reboot：Click this button will reboot the device.
- Factory default：Click this to get back factory default. After reset, sever will reboot automatically.
- Backup: Click to save a config file into PC.
- Restore: Click to restore a config file into encode server. All setting will get back to previous one.
- Kernel upgrade: Click to upgrade device kernel.
- File system upgrade: Click to upgrade device kernel.
- Firmware update: Click to upgrade firmware.
- Logo update: Click to change homepage logo. Please use 850x50 gif formats to replace old one.

2.2.2. Work mode

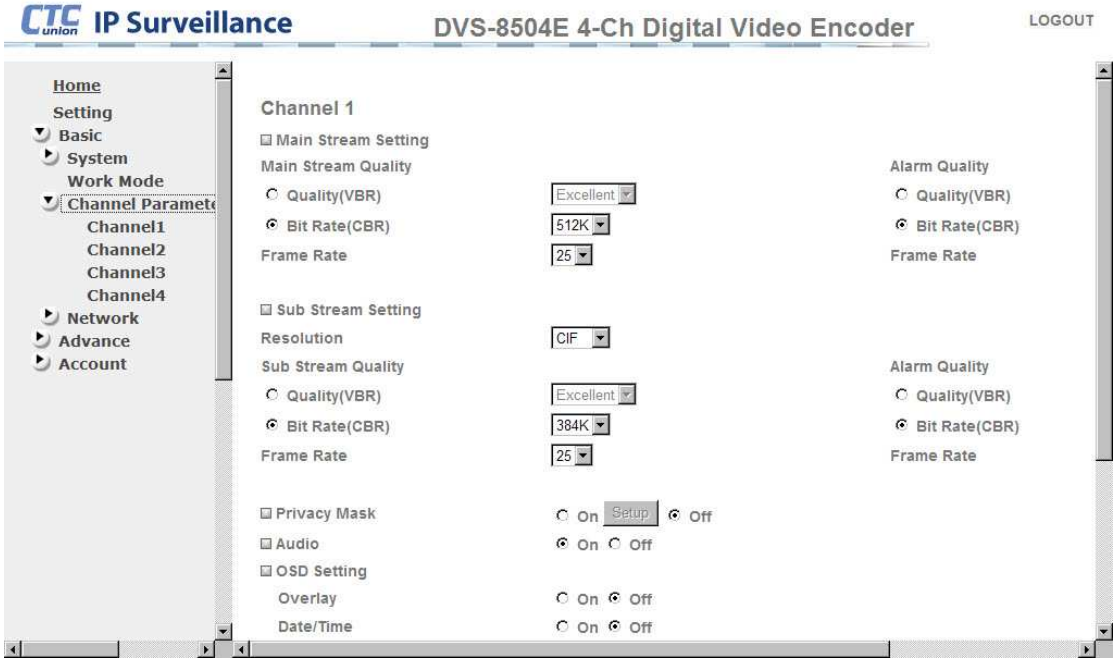


- Video format：Two formats can be selected. NTSC or PAL
- Steam Port

  RTP Port：Input RTP protocol port. User can use software which supports RTP steaming to watch video. (Range 1024 ~ 65535)
  RTCP control port (SSL): Input RTCP protocol port. User can use software which supports RTCP steaming to watch video.
- Resolution：Click pull-down menu to choose resolution.（CIF,D1 和 2CIF）
- Choose channel：Click checkbox to choose channel. Supports four channels in CIF. Supports two channels in 2CIF. Supports only one channel in D1.

2. 2. 3. Channel parameter

There are four channels support in this setting. Each channel has independence setting page.



- Main stream setting：

  Main stream quality：VBR (Variable bit rate) – Bit rate are variable by video quality.
  CBR (Constant bit rate) –Fix video bit rate.

  Frame rate：Set picture transferred per second. Maximum are 25 frames in PAL mode. Maximum are 30 frames in NTSC mode.

  Alarm Quality: All parameter are the same above.

- Sub stream setting：All parameter are the same with main stream.

- Privacy mask：To active select “on”, and then click “setup”. This will hide chosen region from view.

- Audio：Turn on or off audio.

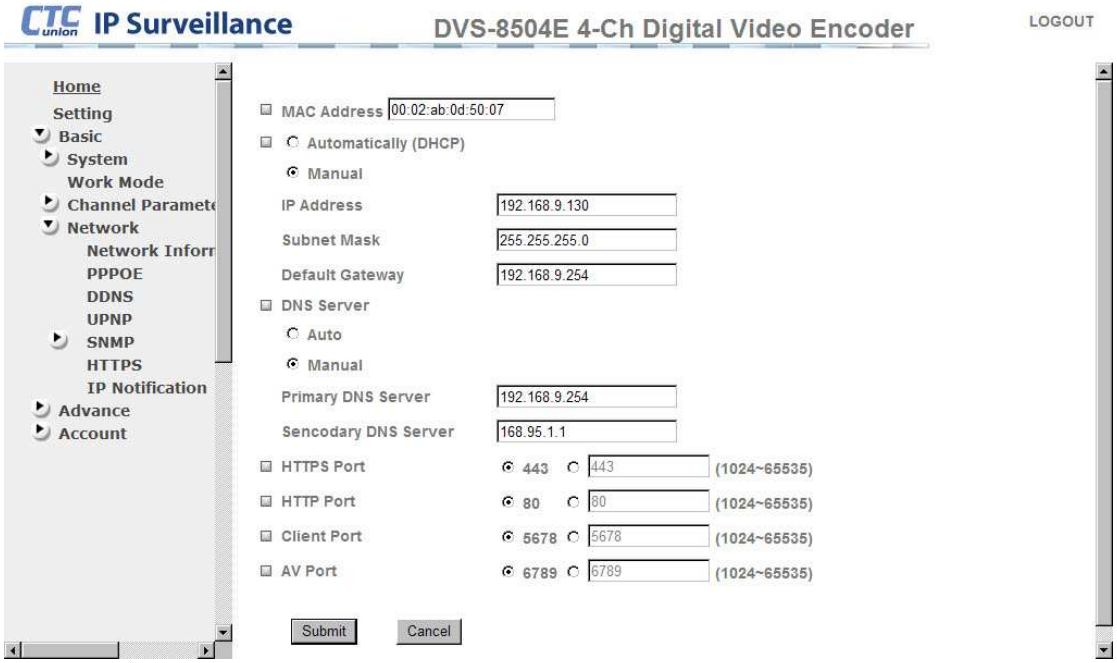
- OSD (On screen display) setting：

  Overlay: Turn on or off overlay text.
  Date time: Turn on or off time show on screen.
  Text color: Choose OSD text color.
  Background color: Choose background color of OSD.
  Alias: Channel alias

Display position：Text display position on screen.

2. 2. 4. Network

2. 2. 4. 1. Network Information



- MAC address：Show device MAC address.
- Automatically（DHCP）：Set device to DHCP
- Manual：Manual set IP, subnet and default gateway.
- DNS Server

  Auto：Get DNS server IP automatically.

  Manual：Set DNS IP manually.

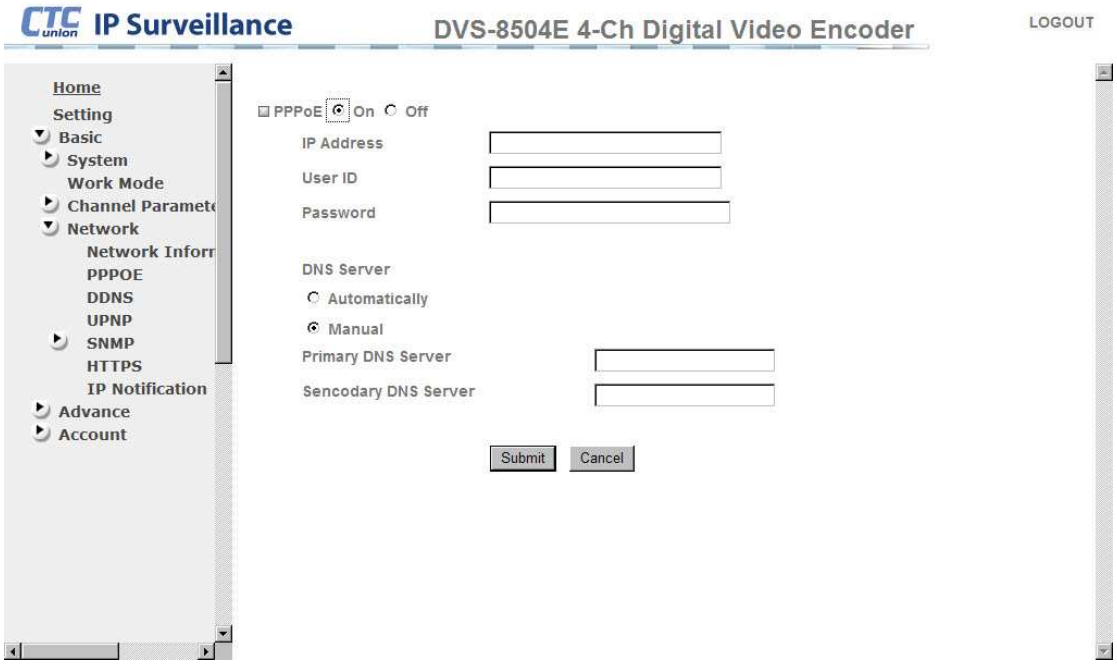
  Primary DNS：Input primary DNS server IP address here.

  Secondary DNS Server：Input secondary DNS server IP address here.

- HTTPS Port：Set to connect by default https port 443 or range 1024~65535
- HTTP Port：Set to connect by default http port 80 or range 1024~65535
- Client Port：Define client device connect to encoder by which port.
- AV Port：Port of video service stream. 6789, or set manually (range 1024~65535)。

2.2.4.2. PPPOE

Set to connect to Internet by PPPoE.



- IP address：Read-only. IP address from PPPoE service.
- Username ID：PPPoE username ID. Usually get from ISP.
- Password：PPPoE certified password. Usually get from ISP.
- DNS Server

  Automatically: Get DNS IP automatically.

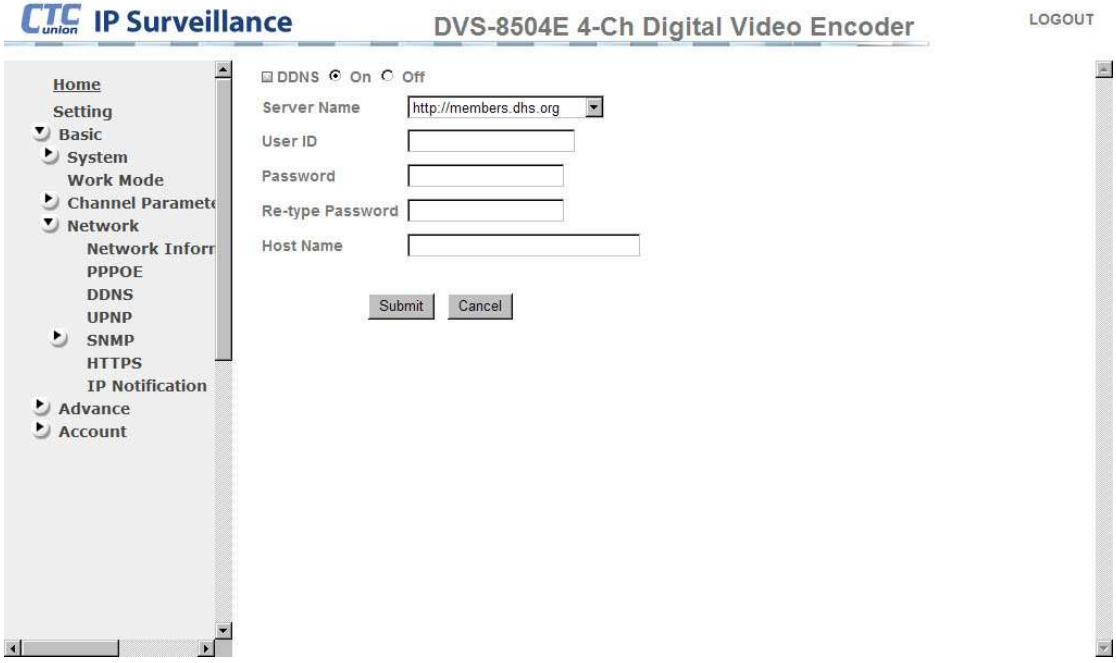
  Manually ：Set DNS IP manually.

  Primary DNS：Input primary DNS server IP address here.

  Secondary DNS Server：Input secondary DNS server IP address here.

2. 2. 4. 3. DDNS

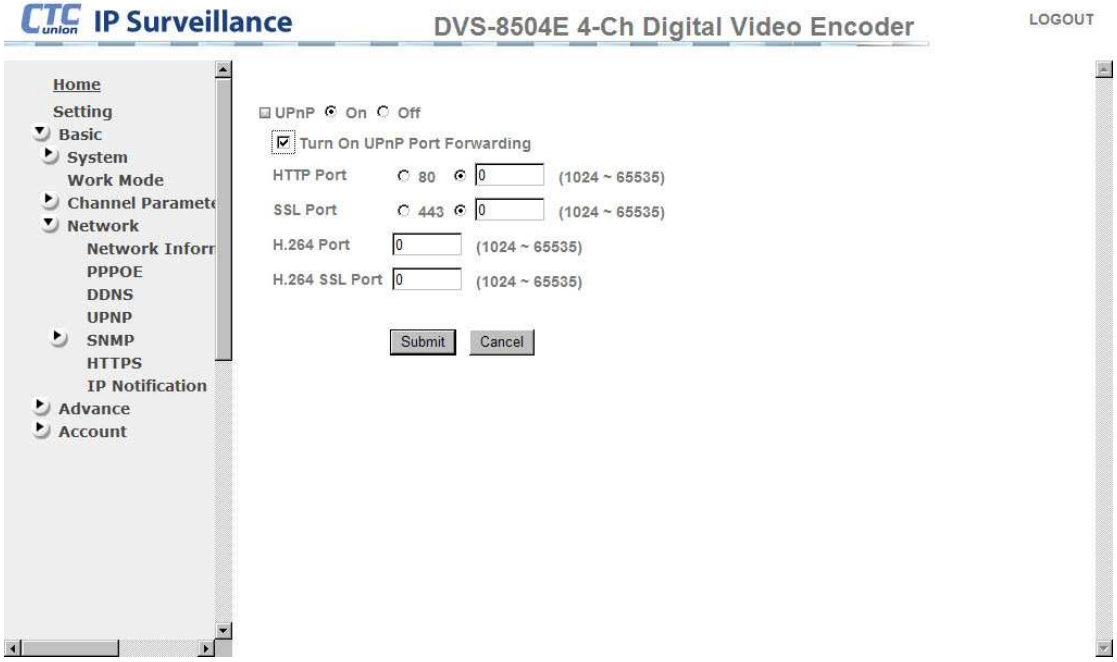
This allow device to have DDNS domain name. Encoder will notify a domain name server to change mapping IP in real time (ad-hoc), the active DNS configuration of its configured hostnames, addresses or other information.



- Server name：Select a DDNS server from Pull-down menu.
- User ID：Input DDNS ID from DDNS server.
- Password：DDNS authentication password.
- Host name: Hostname which registered on DDNS server.
- Note: Before using this function, please register an account from DDNS service provider.

2. 2. 4. 4. UPnP

UPnP helps user to find this machine easily. It will open service ports on local LAN UPnP router. Make others from Internet easily to access this device.

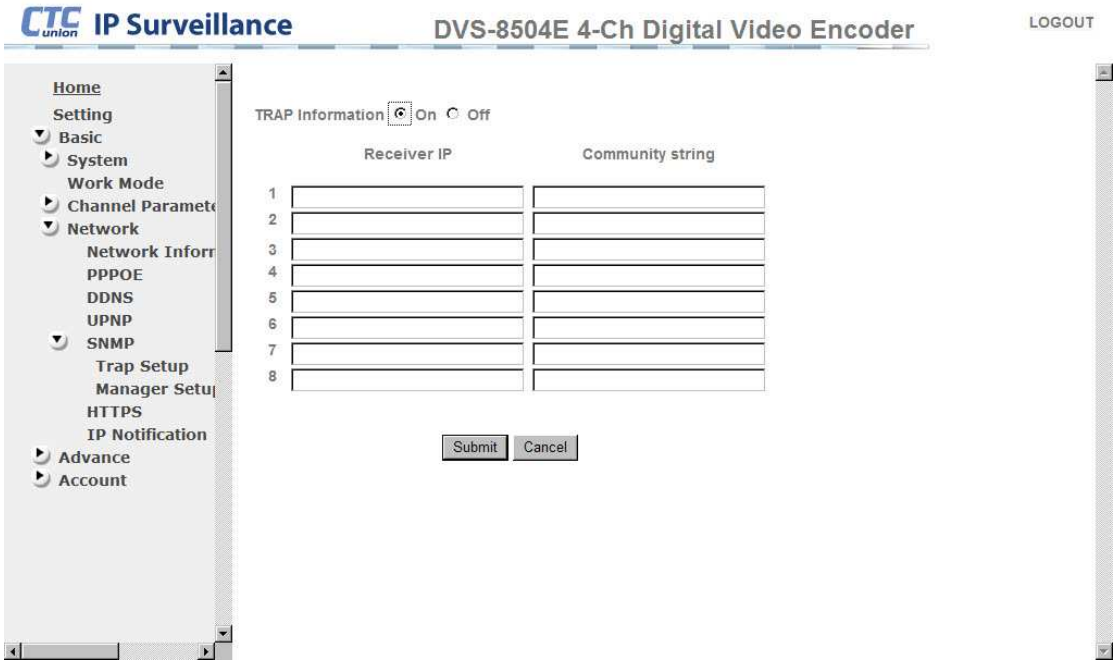


- HTTP port：HTTP connected port. Use default 80 or set manually (range 1024~65535)
- SSL port：Https security connection port setting. Use default 443 or set manually. (range 1024~65535)
- H.264 port：Set video stream port (range 1024~65535)
- H.264 SSL port：Input security connection port (range 1024~65535)

2. 2. 4. 5. SNMP

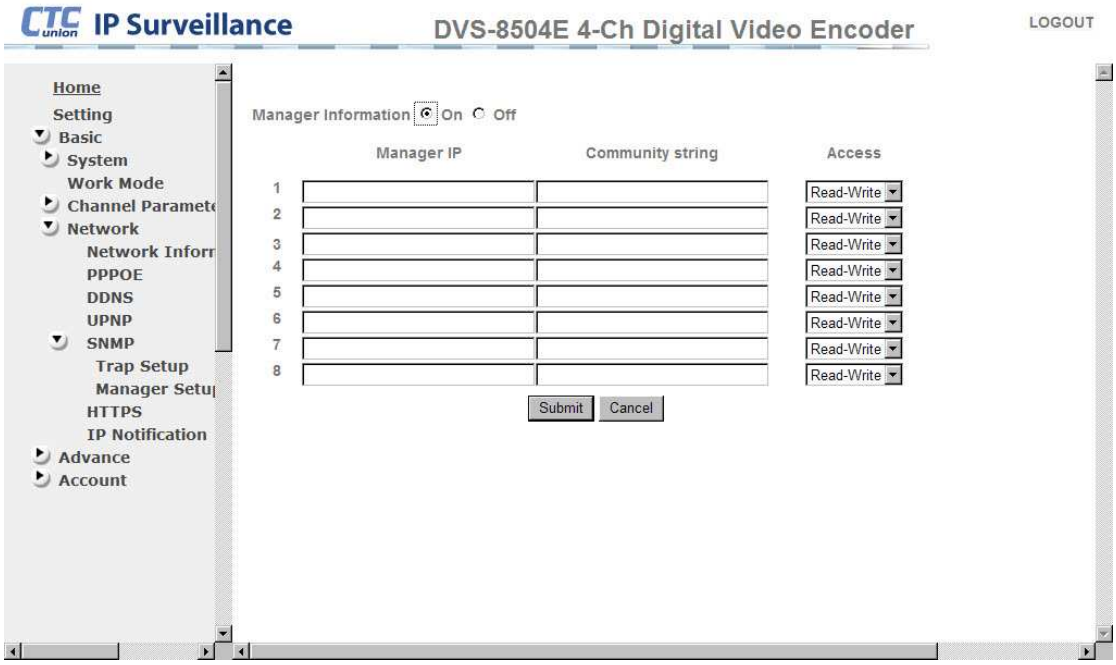
Simple **N**etwork **M**anagement **P**rotocol (**SNMP**) is a widely used protocol for monitoring the health and welfare of network equipment.

SNMP_TRAP



- Trap Information: Turn on or off SNMP service.
- Receiver IP：SNMP information receiver IP.
- Community string：Input SNMP server string to communicate with SNMP server.

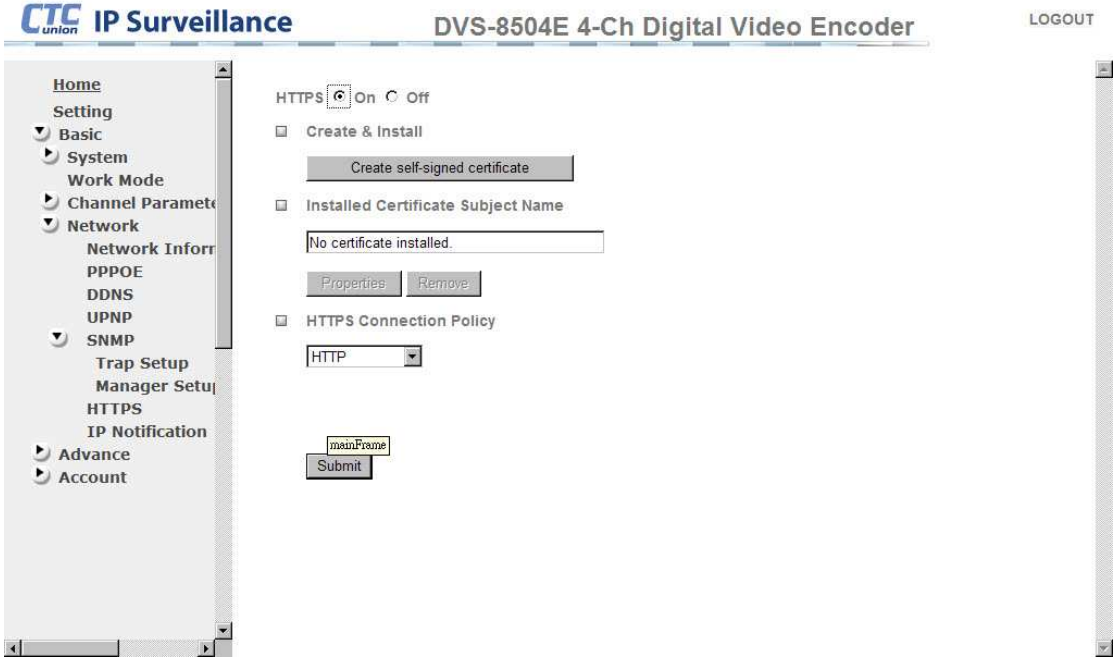
SNMP_MANAGER



- Manager IP：Input SNMP manager IP.
- Community string：Input SNMP server string to communicate with SNMP server.
- Access：Let user “read” or “read and write” on device.

2.2.4.6. HTTPS

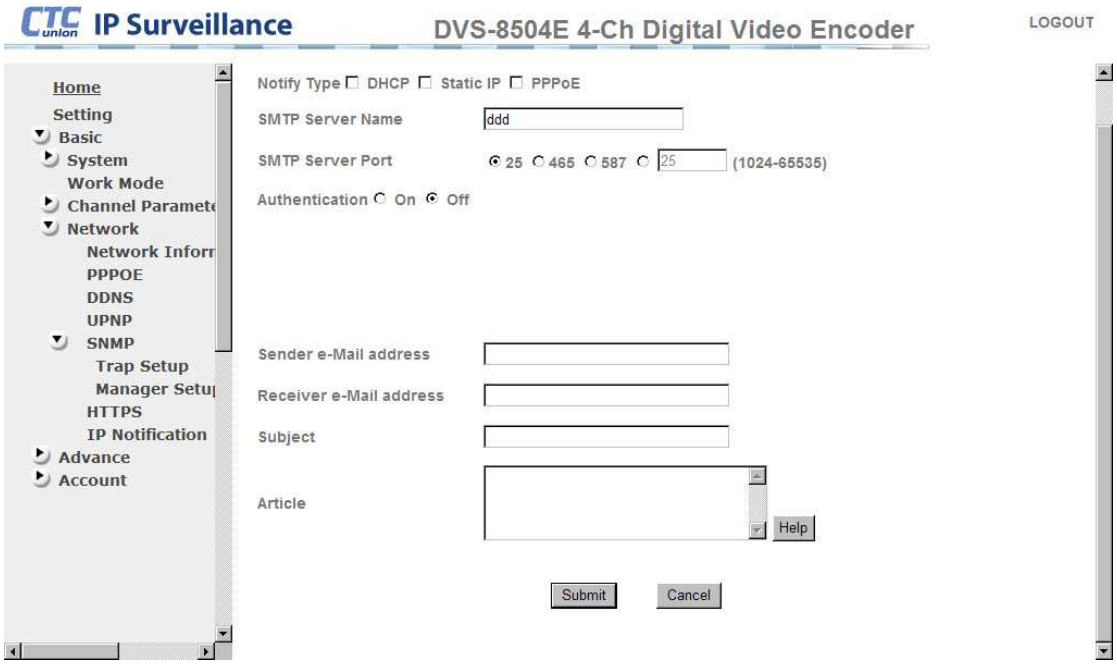
Https is a URI scheme used to indicate a secure HTTP connection. It is syntactically identical to the http:// scheme normally used for accessing resources using HTTP. Select “on” to start to setup.



- Create & install : Click “create self-signed certificate” to create a cer
- Installed Certificate Subject Name: show or remove certificate.
- HTTPS connection policy: Three policies can be choosing. (HTTP, HTTPS, HTTP&HTTPS)

2. 2. 4. 7. IP Notification

Notify user by E-mail, while device is using new IP. Select “on” to turn on.

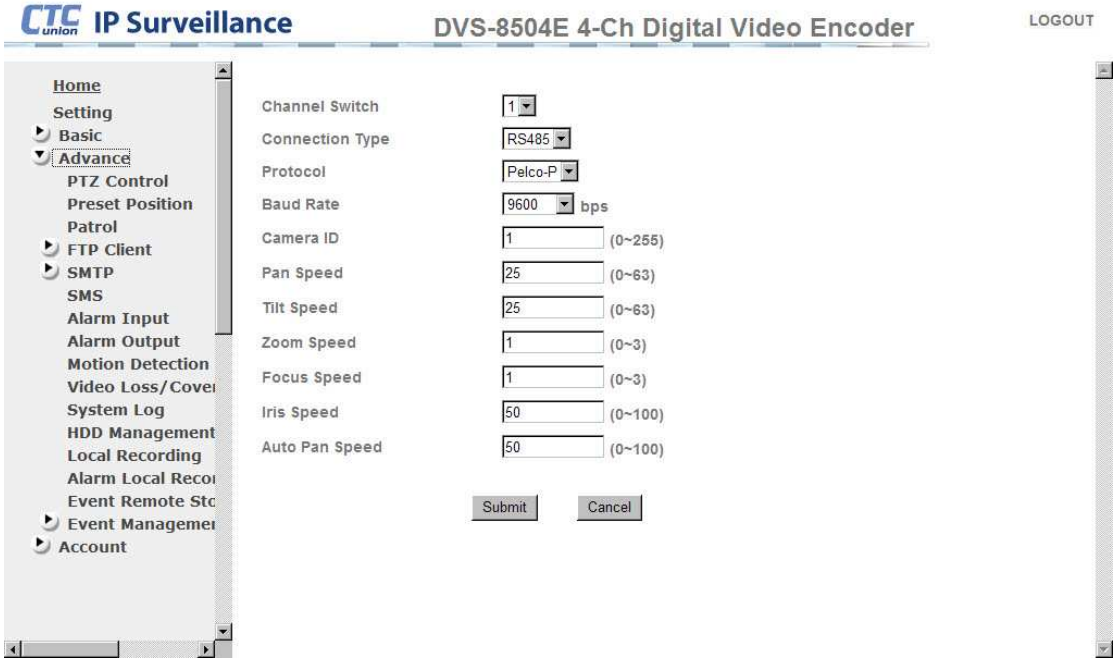


- Notify Type: Select which condition to send notification.
- SMTP Server name: Input SMTP server name or IP address here.
- SMTP server port: Use default SMTP port or user-defined (range 1024~65535)
- Authentication: Select authentication type according to your SMTP server.
- Receiver mail address: There are five receivers acceptable.
- Sender mail address: Input sender E-mail address here.
- Subject: Mail subject
- Message: Mail text

2.3. Advance

2. 3. 1. PTZ Control

This page let user setup parameter of PTZ.



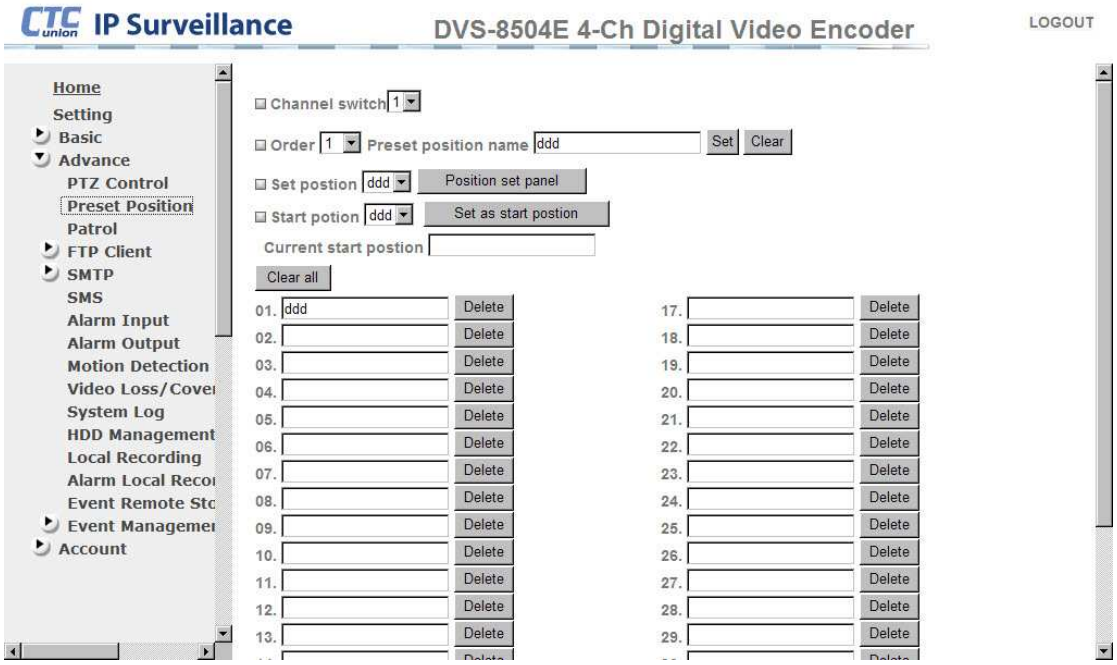
- Channel Switch：Select one channel to start to setup.

- Connection type：Select connection type according to interface.

- Protocol: Select camera protocol. Please refer to user manual of camera.
- Pan Speed: PTZ camera pan speed (range 0~63).
- Tilt Speed: PTZ camera tilt speed (range 0~63)
- Zoom speed: PTZ camera zoom speed (range 0~3)
- Focus speed: Focus speed of camera (range 0~3).
- Iris speed: Adjust Iris speed of camera (range 0~100)
- Auto Patrol speed: Adjust auto patrol speed (range 0~100)

2. 3. 2. Preset Position

Setup preset position of PTZ camera on each channel.



Steps：

- Select channel you want to setup.
- Select preset number which you want to setup. There are 32 numbers for using.

  Write down position name and click “Set”

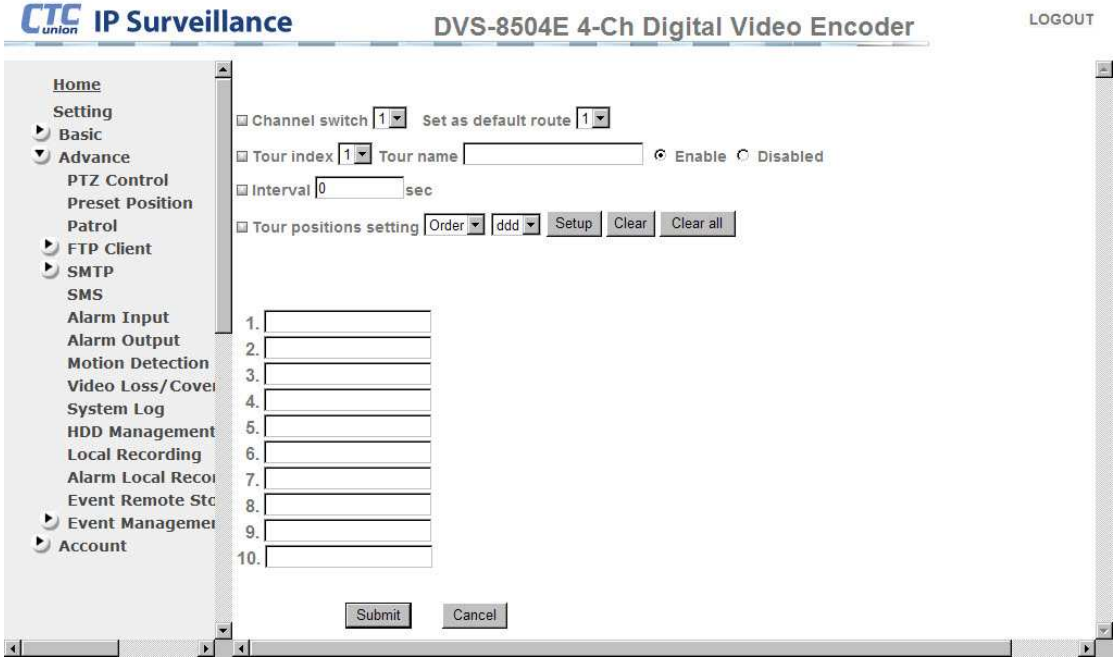
  Click “Position set panel”, there will be a new PTZ control windows appear.

“Start position”(home position). Choose a position name for home position from pull-down menu. “Clear all” will clear all position you set.

- Remember to click “Submit” after any changing.

2. 3. 3. Patrol

This page let user setup patrol route of camera. Every channel has four patrol routes. Every route is constituted by 8 preset points. Camera will move by order to the end.

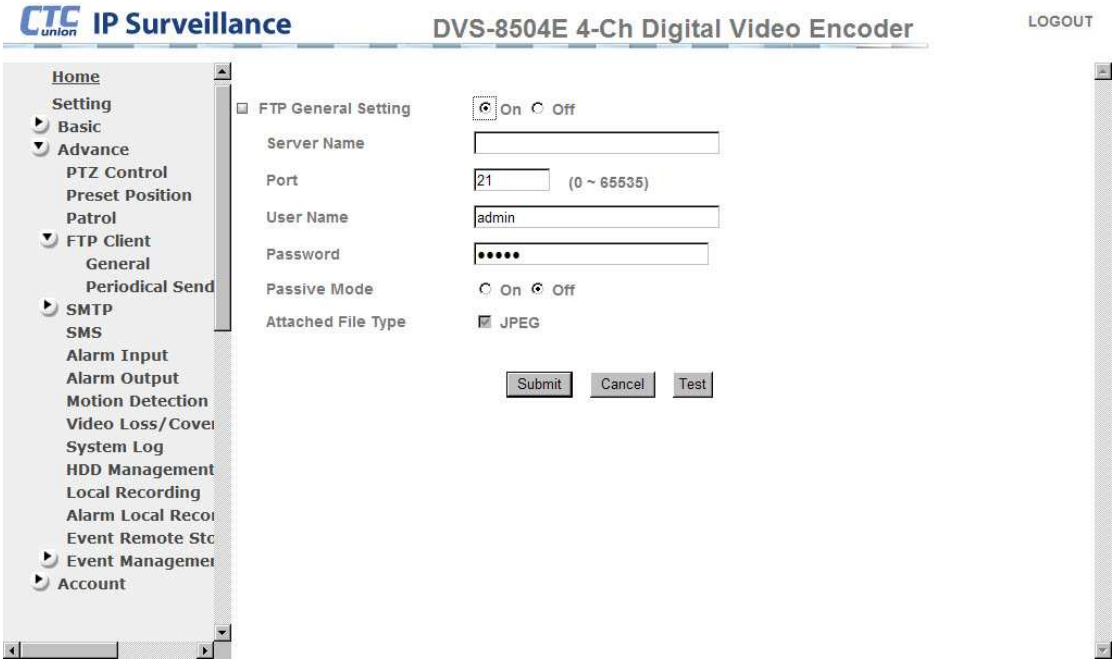


- Channel switch：Choose channel to setup
- Set as default route: Choose a route number
- Tour index: Show the route number you are setting now.
- Tour name: Give a name for this tour.
- Interval: Stop time on each preset position.
- Select preset point, click “setup” to put it on the preset route.
- Remember to click “Submit” after any changing.

2. 3. 4. FTP client

FTP client will send images file while alarm accrued.

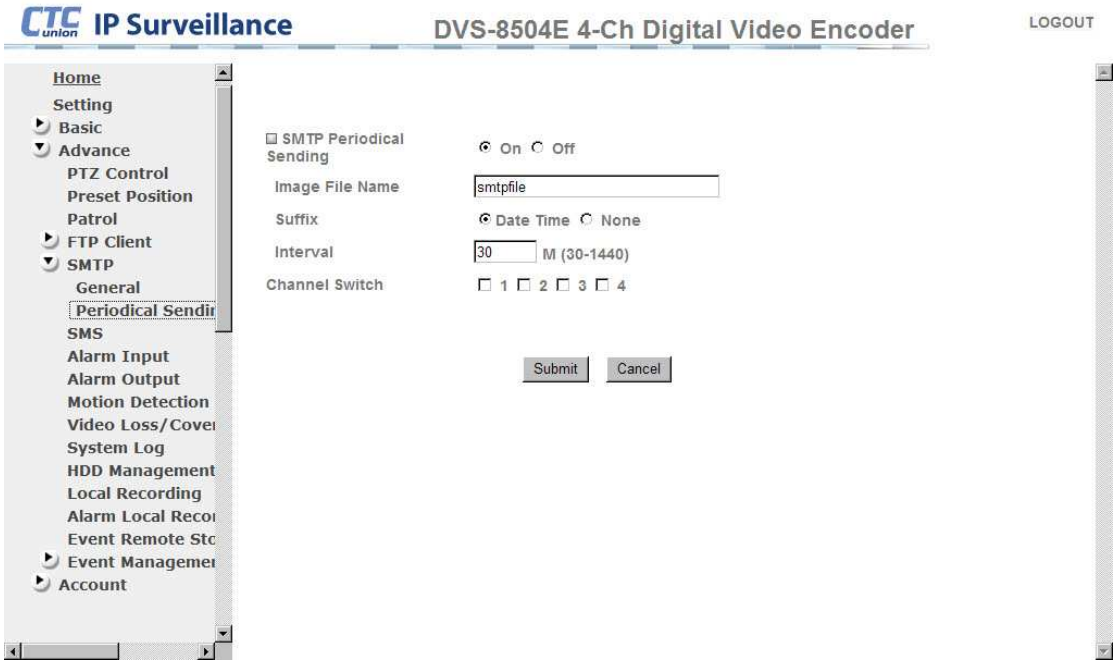
2. 3. 4. 1. General



- FTP General Setting：Turn on or off this feature.
- Server name：Input FTP server name or IP address.。
- FTP port：Input FTP server port, default is 21 (range 0~65535)
- User name：Input user name of FTP server.
- Password：Input password of FTP server.
- Passive Mode：While you connecting to a FTP server with passive mode. Please turn on this.
- Attached File Type：Click here to send “JPEG” file to FTP server.

2. 3. 4. 2. Periodical Sending

Send images file to FTP server periodically.

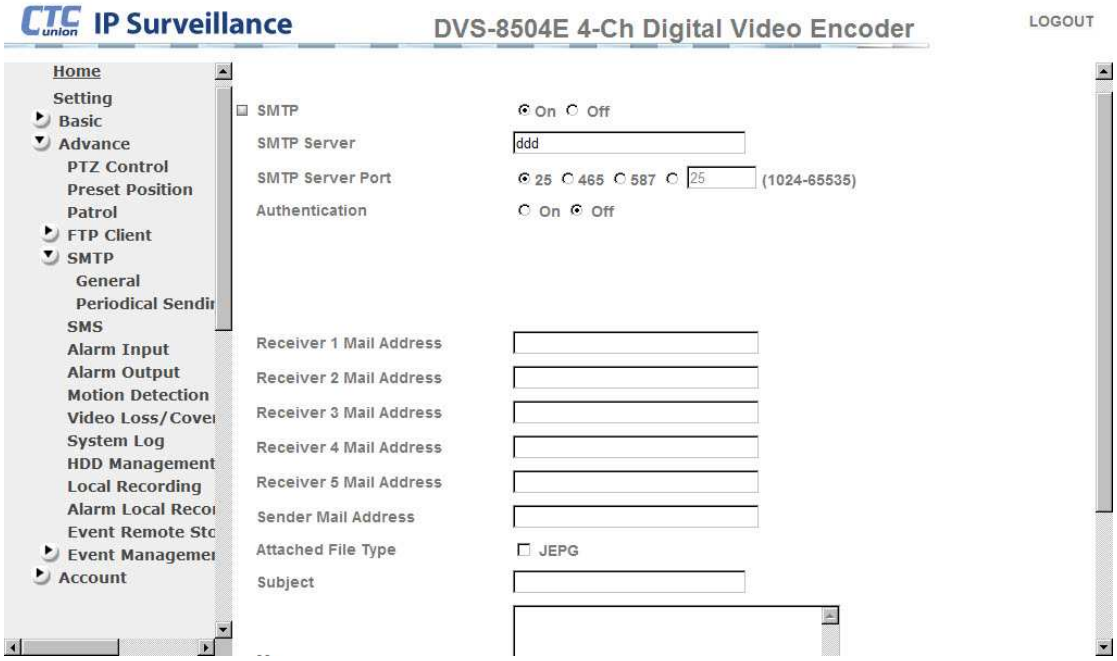


- FTP Periodical Sending：Turn on or off this feature.
- Image File Name：File name of sending to FTP server.
- Suffix：Suffix of sending-file.
- Interval：Choose interval time of sending-file
- Channel Switch：Choose active channel here.

2.3.5. SMTP

By setup SMTP server, let device send image file to specific E-mail address.

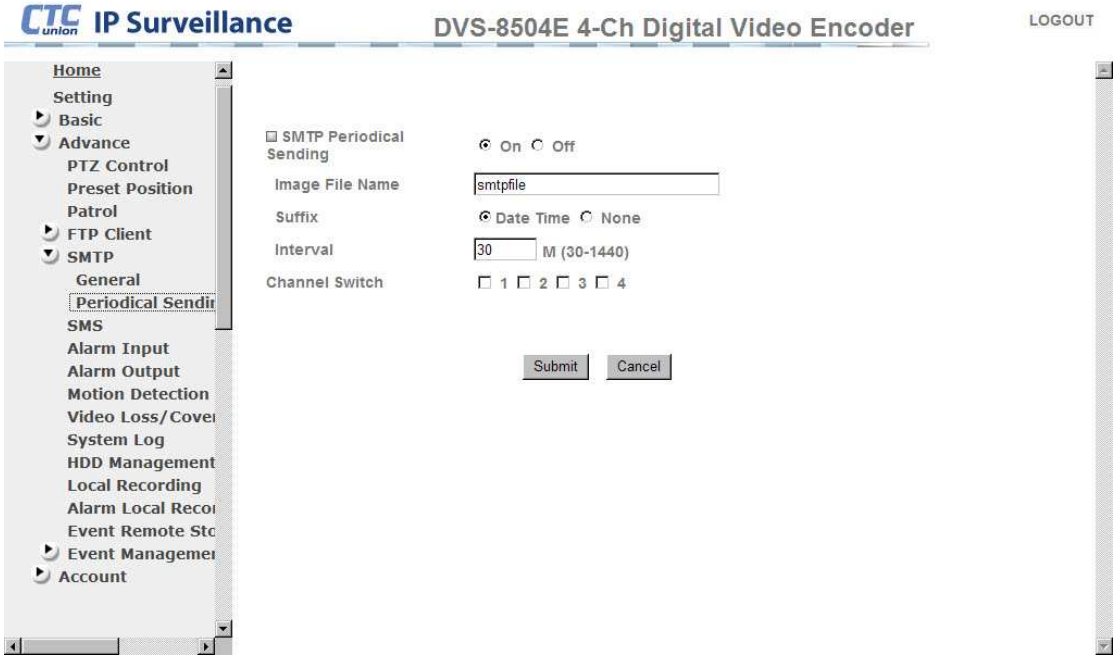
2.3.5.1. General



- SMTP：Turn on or off this feature.
- SMTP Server：Input SMTP server IP address
- SMTP port：Use default SMTP port or user-defined (range 1024~65535)
- Authentication: Select authentication type according to your SMTP server.
- Receiver mail address: There are five receivers acceptable.
- Sender mail address: 5 receivers can be set.
- Subject: Mail subject
- Message: Mail text

2. 3. 5. 2. SMTP Periodical Sending

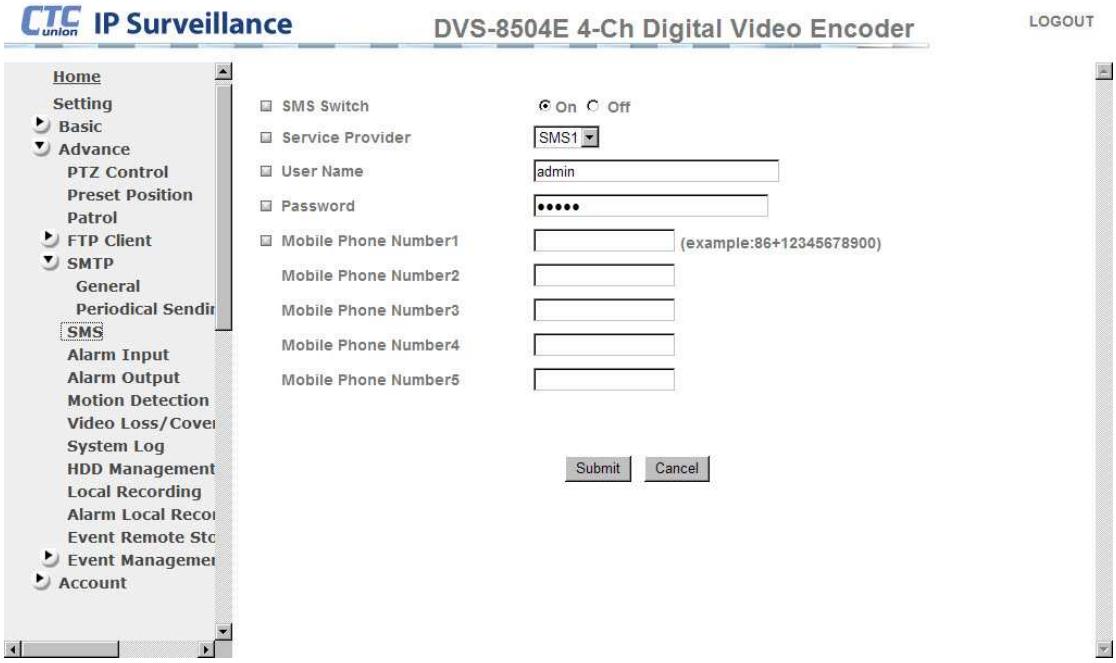
Send image file to specific E-mail address periodically.



- SMTP Periodical Sending：Turn on or off this feature.
- Image File Name：Attached file name.
- Suffix：Select “Date Time” for image suffix or not.
- Interval：Periodical mail interval time (Minute). Range from 30 minutes to 1440minutes.
- Channel Switch：Choose active channel here.

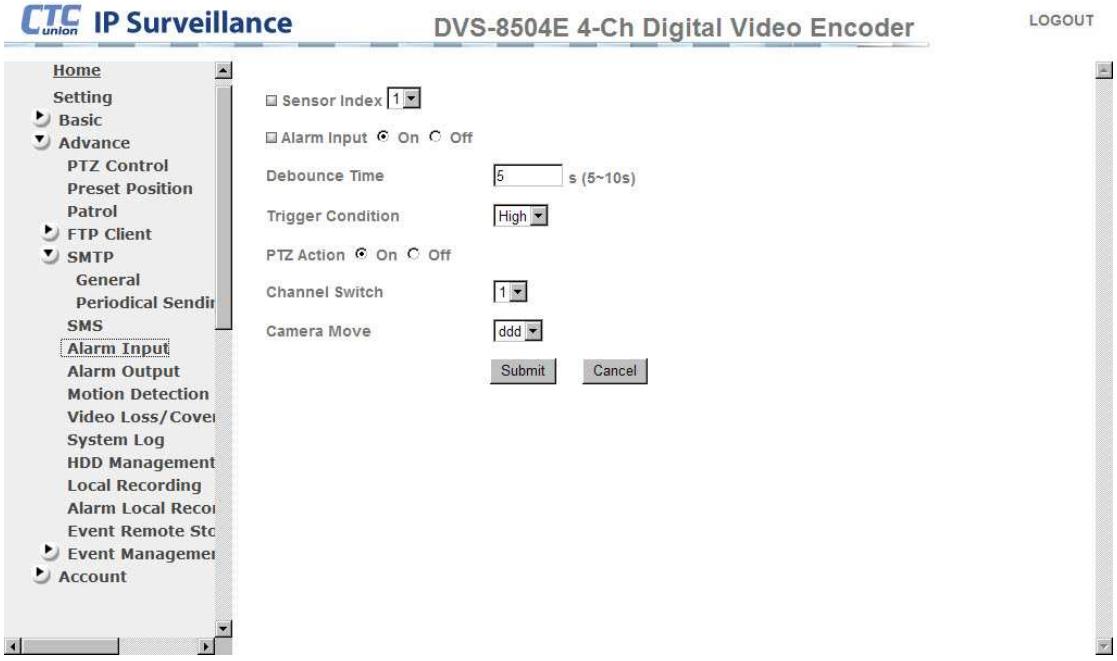
2.3.6. SMS

Send message to mobile device.



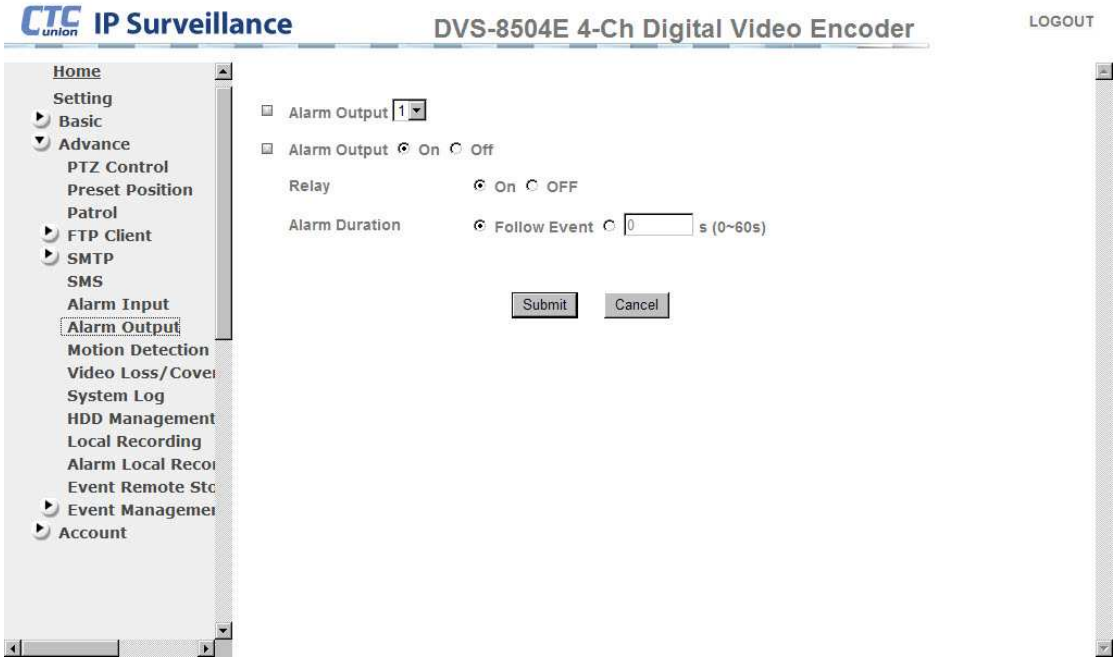
- SMS switch：Turn on or off this feature.
- Service provider：Select message service provider.
- Username：Input username on SMS server.
- Password：Input SMS server password.
- Mobile phone Number：Input receiver phone number from 1 to 5.

2. 3. 7. Alarm Input



- Sensor Index：Select which sensor you want to config.
- Alarm Input：Turn on or off this feature.
- Debounce Time：Interval time, range from 5 to 10 seconds.
- PTZ Action：If turn this on, PTZ camera will move to allocated position while alarm.
  Assign channel and position, then.

2.3.8. Alarm Output

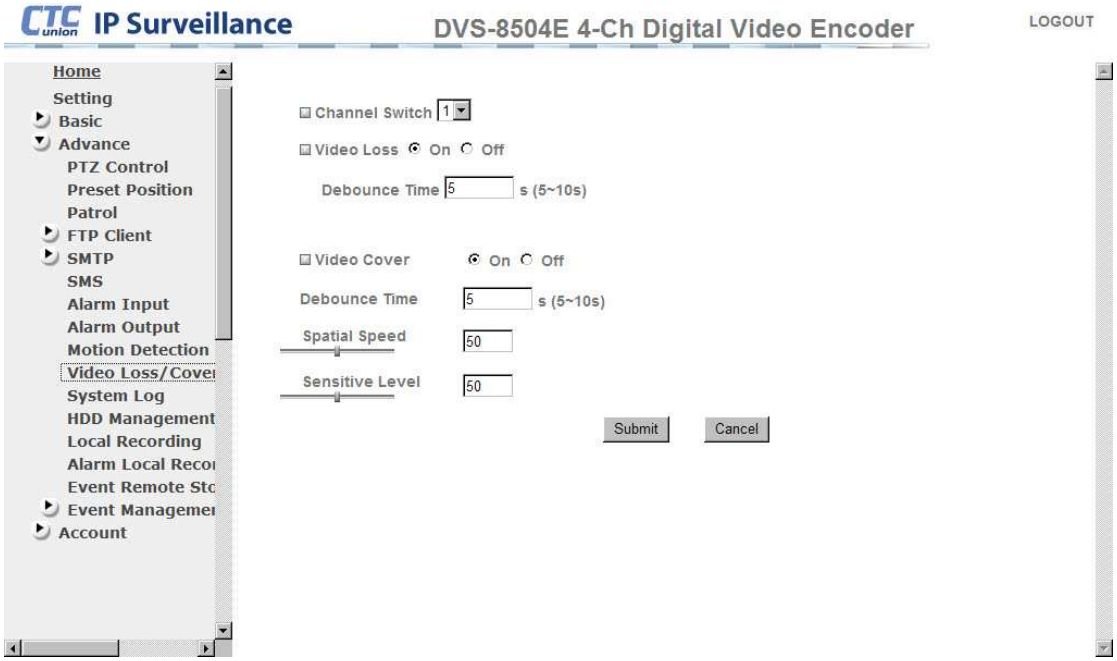


- Alarm Output：Select DO1 or DO2 for alarm output.
- Alarm Output switch：Turn on or off “alarm output”
- Relay：Turn on or off relay.
- Alarm Duration: “Follow Event” alarm will continue till event end. Or set durative time.

2.3.9. Motion Detection

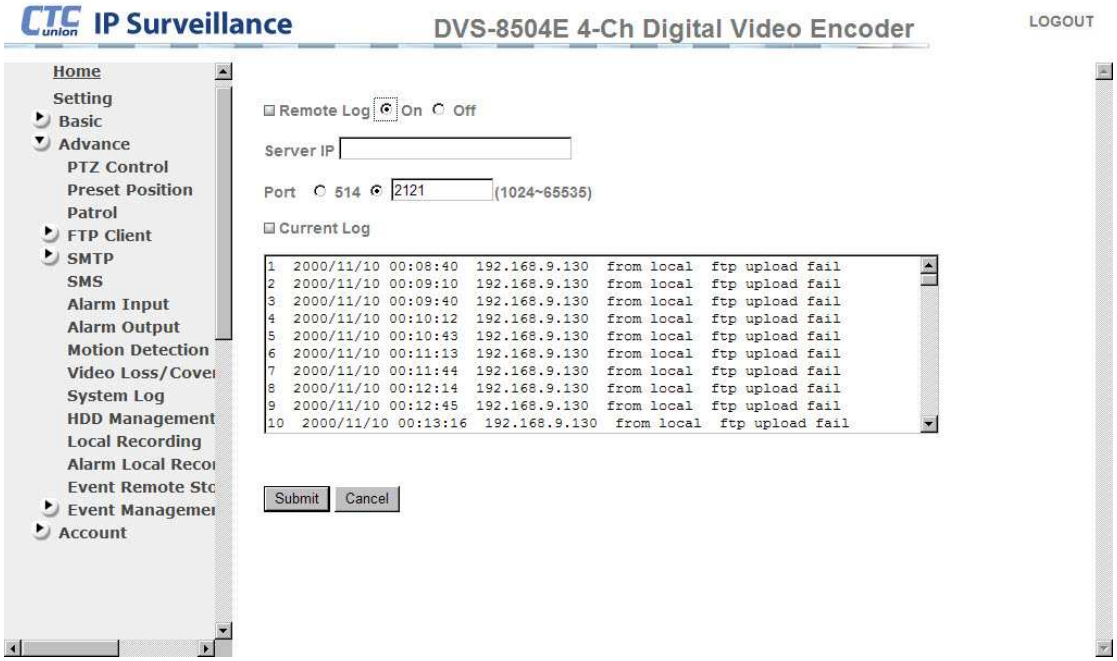
- Channel：Select which channel to setup.
- Motion detection：Turn on or off this function.
- Spatial Threshold：Sensitivity of motion detection.
- Debounce time : Motion-triggered duration time.

2. 3. 10. Video Loss/Cover



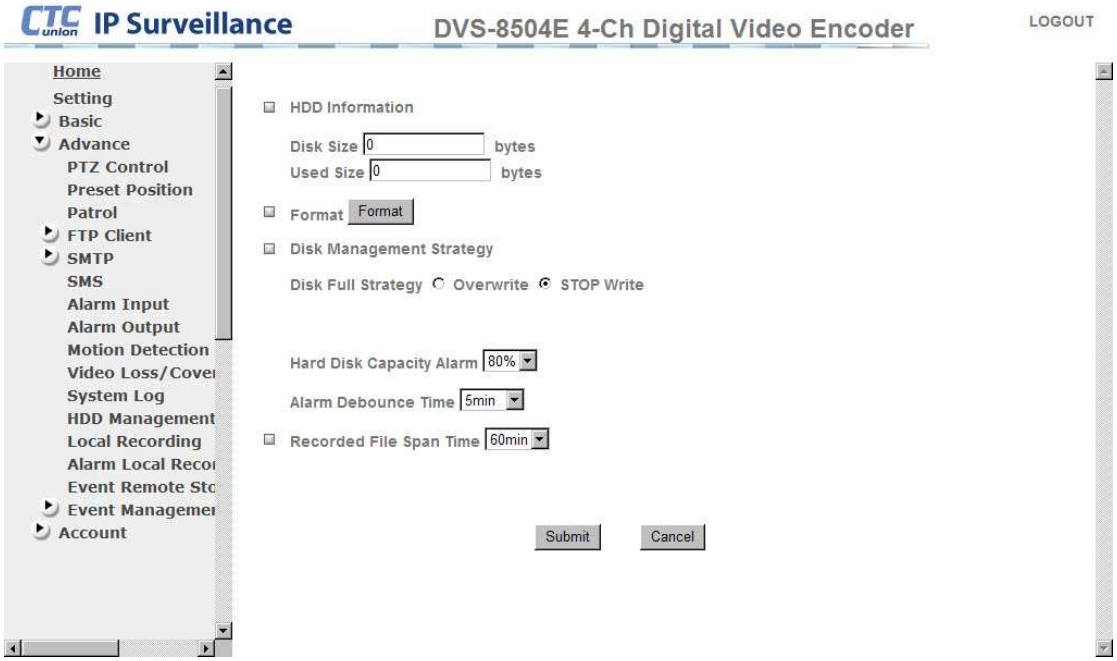
- Channel Switch：Select which channel to setup.
- Video Loss：Turn on to active specific action while “video loss”. Go to “Event Management” --> “Event Setting” to set action.
- Debounce Time：Interval time, range from 5 to 10 seconds.
- Video Cover：Detect if camera lanes is covered.
- Debounce Time：Interval time, range from 5 to 10 seconds.
- Sensitive Level：Setup “video cover” sensitive. Range 0~100

2. 3. 11. System Log



- Remote Log：Send log to remote log server.
- Server IP：Input IP of remote log server
- Port：Remote Log Server port. (Range from 1024 ~ 65535)
- Current Log：Show DVS current log. It will overwrite old log while log spool is full.

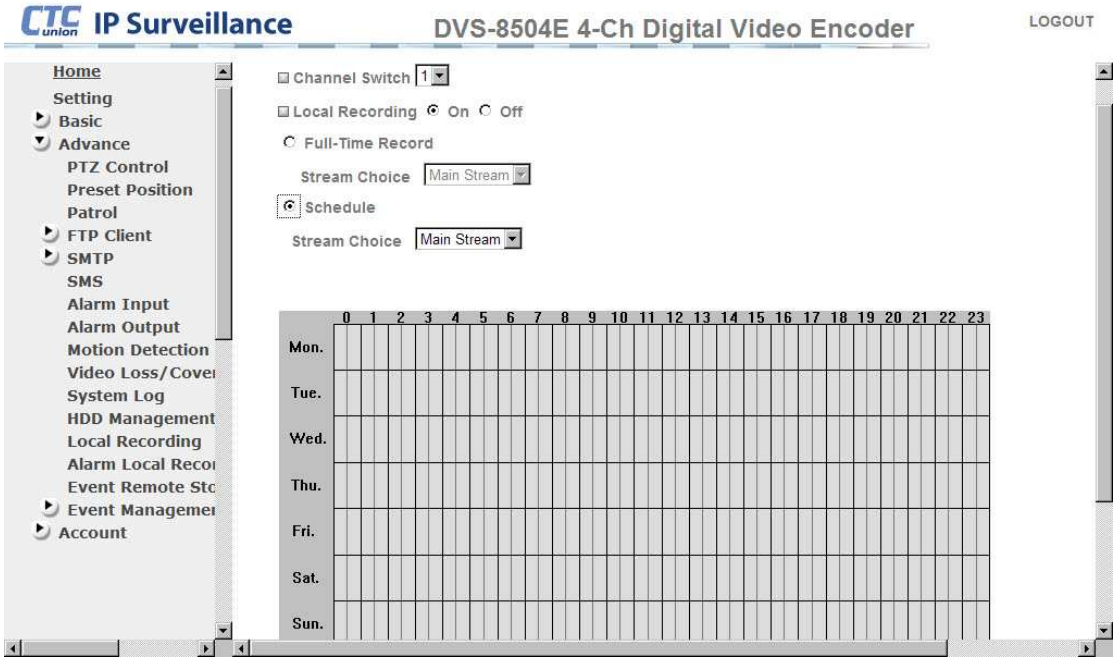
2.3.12. HD management



- HDD information：If there is hard disk connected inside, hard disk size and used size will show inside. If not, all these will show 0.
- Format：Click “Format” button to format hard disk. All data will be erased.
- Disk Management Strategy：

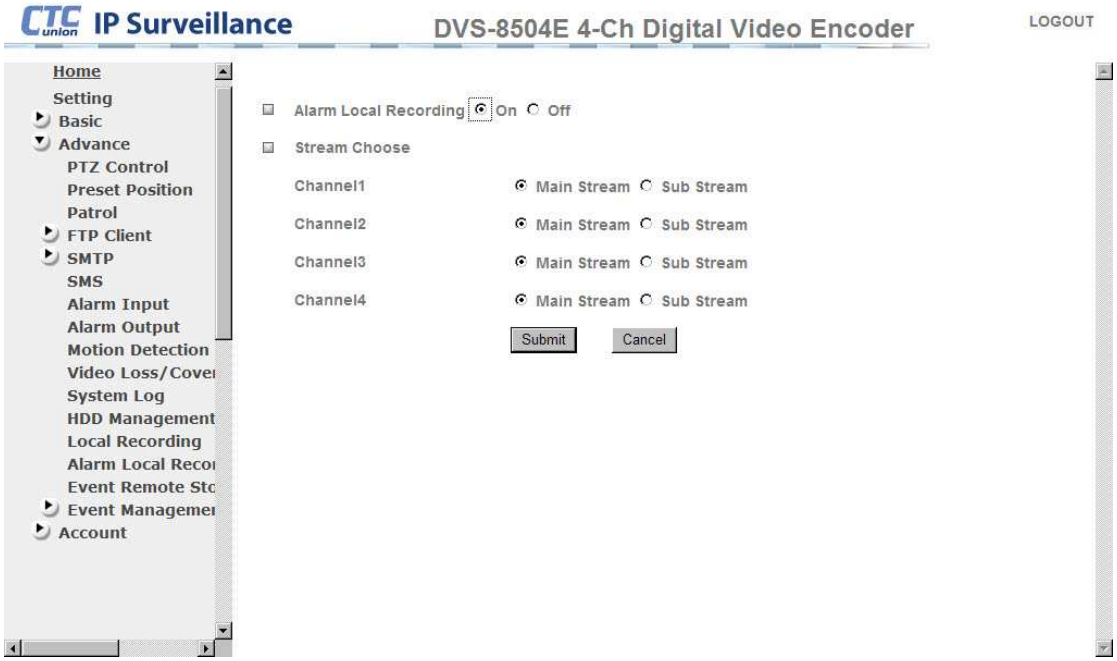
  Disk Full Strategy: “Overwrite” old data while hard disk is full. “STOP Write” hard disk while hard disk is full.
- Hard Disk capacity alarm: Send alarm while hard disk spaces reach to set percentage.
- Alarm Debounce Time: Alarm duration.
- Recorded File Span Time: Make video file split into 15, 30, 45 or 60 min.

2. 3. 13. Local recording



- Channel Switch：Select which channel you want to setup.
- Local Recording
  Full-Time Recording: Record all video in this channel. Then, please choose “main” or “Sub” channel.
  Schedule: Use schedule tale to select when to record video. Each block represent half hour.

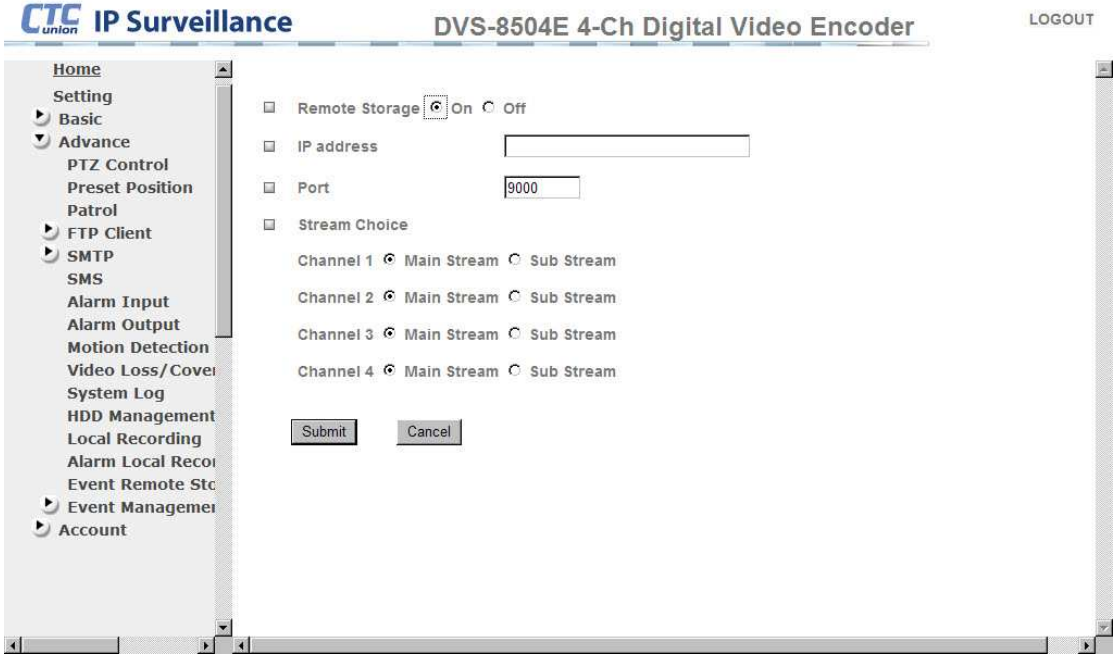
2. 3. 14. Alarm local recording



- Alarm local recording：Record video while alarm occurs. Then choose main or sub stream on recording.

2. 3. 15. Event Remote Store

Save video to remote video server while event occurs.

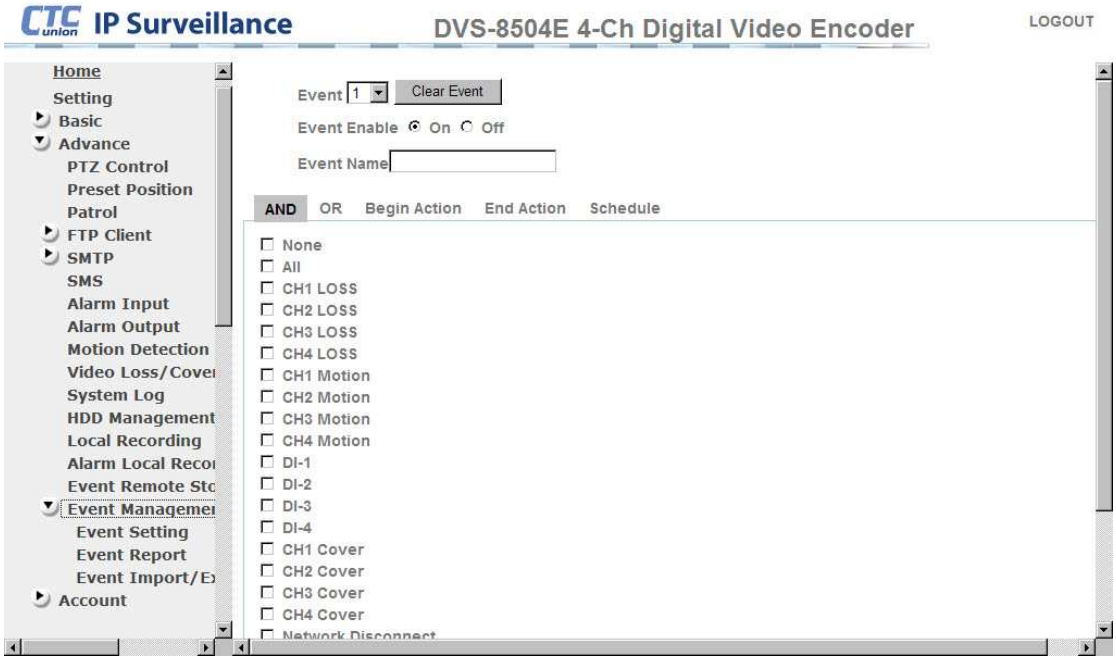


- IP address: Input remote video server IP address.
- Port: Input remote video server port here.
- Stream choice: Choose main or sub stream when recording.

2. 3. 16. Event Management

This function is including event setting, import and export.

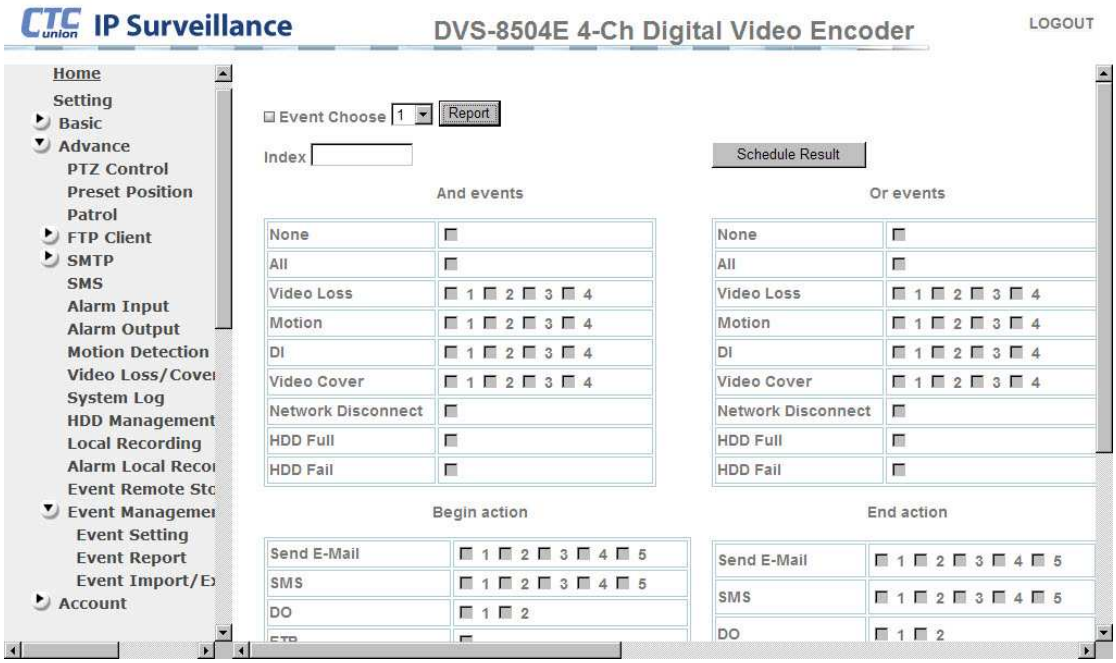
2. 3. 16. 1. Event Setting



- Event: Give every event setting a serial number
- Event Enable: Turn on or off event setting.
- Event Name: Give every event a specific for Identification.
- AND：Select trigger-event. In “AND” condition, all events should happen, and then device trigger alarm.
- OR: Select trigger-event. In “OR” condition, one of selected event happen, then trigger alarm.
- Begin Action: Select action while alarm is triggered.
- End Action: Select action while alarm is end
- Schedule: Schedule recording. The same table as “Local recording”

2.3.16.2. Event Report

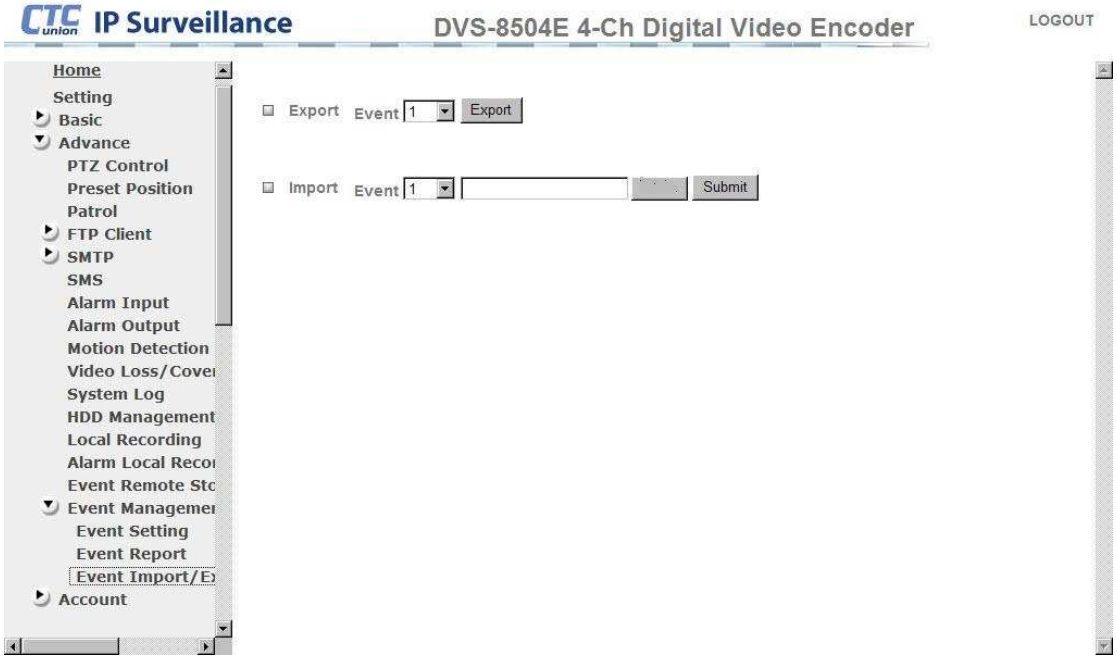
Check event setting on each event serial number.



Click ”Report” to show report.

2.3.16.3. Event import/ Export

All Event setting could export to a file. Also user can import event setting.

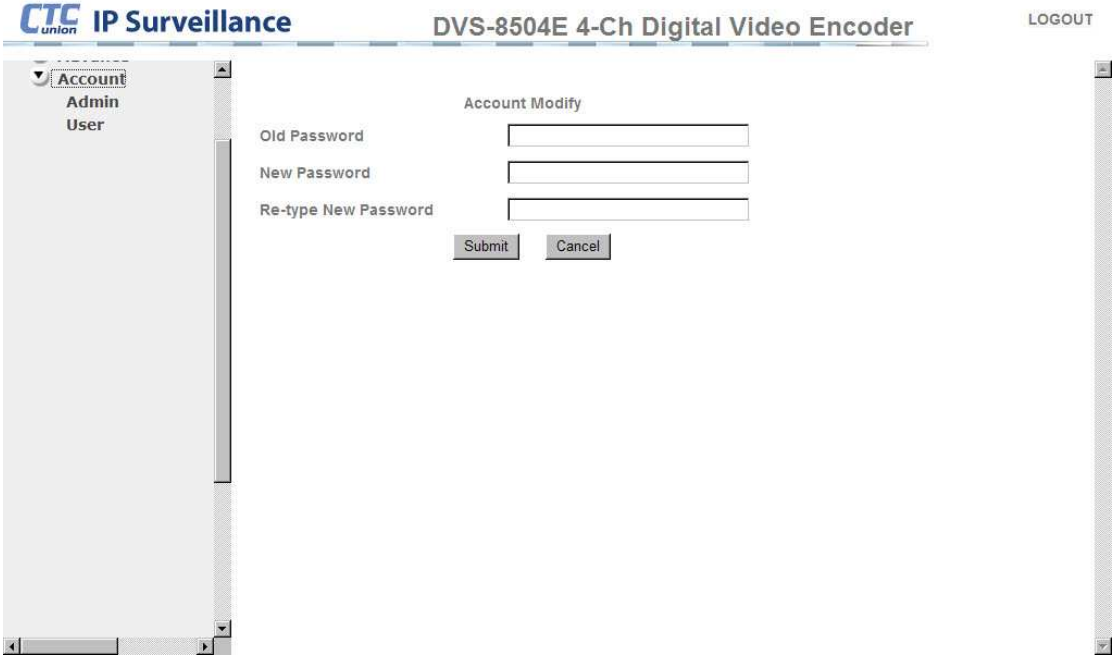


- Export：Click ”Export” to export a event file. Then, select “save as” to save on PC.
- Import：Click ”Browse” to select a specific file to import.

2.4. Account

2. 4. 1. Admin

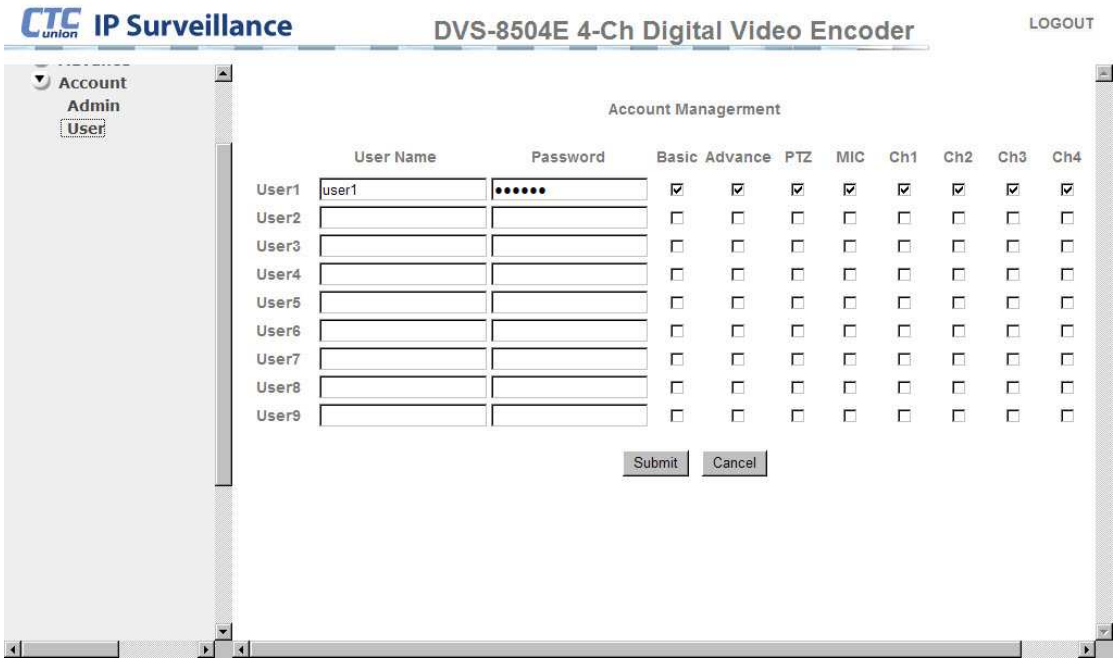
Administrator's default username and password is "admin". This page allow user change password for administrator.



- User should input old password to verify changing.

2. 4. 2. User

Change normal user “User name”, “Password” and limits of authority.



- User name: Input normal user’ user name. (Do not exceed 32 characters)
- Password: Input normal user’s password. (Do not exceed 32 characters)
- Basic: User’s competence on setup ”Basic” function
- Advance: User’s competence on setup ”Advance” function
- PTZ: User’s competence on controlling PTZ camera.
- MIC: User’s competence on setup ”MIC”
- Ch1~Ch4: user’s competence on each channel.
- Playback: user’s competence on watching ”Playback” .